

# STEAM LAB

## ANIMAL SCIENCE

# G R O W

### Guiding questions:

How are different livestock farm animals cared for and managed?  
 What products do we get from different livestock?  
 How do farmers and ranchers promote sustainability?



## G Get ready!

### Think about:

How do animals improve the lives of humans?  
 What animals do you know that are raised as livestock?

Livestock animals are raised around the world as a primary source of food for people. Can you think of any products BESIDES FOOD that we get from these animals?

## R Resource round up!



Watch the episode: **Animal Science – Farm Animals**  
<https://youtu.be/G1KAGEXbNkc>

As you watch, stop and write down 1-2 interesting things you learned about each animal on the farm. List any products you know are produced from each animal.

Animal(s)	New Learning	Products
Pig		
Cow		
Horse		
Sheep		
Goat		
Turkey		
Chicken		



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Read the AnimalSmart.ca webpage: Products From Animals

<http://animalsmart.org/feeding-the-world/products-from-animals>

In a different colour pen or pencil, add products to the chart above.

Which products surprised you most?



Read the AnimalSmart.ca webpage: Environmental Impact of Animal Production

<http://animalsmart.org/animals-and-the-environment/environmental-impact-of-animal-production>

- Identify 2 concerns about how animal production impacts the environment.
- Identify 2 strategies farmers and ranchers use to reduce the environmental impact of their operations.

### O Observe results of an activity or experiment

Try out these activities and games to test your animal science smarts!

<http://www.animalsmart.org/kids-zone#>

Activity: Model of cow's digestive system

Watch the Video: 4 Reasons Why Cows are Awesome

<https://youtu.be/m9eqt6YPI7Y>



Use plasticine or other craft materials to build a model of the cow's digestive system. Create a legend to go with your model to identify the names and functions of the different parts. Include an explanation of why cows need 4 stomachs!

Extension: Complete a Venn diagram to compare the digestive system of a ruminant to a non-ruminant animal.



### W What did you learn?

Create a collage of words, facts and images to show how farmers and ranchers contribute to the health of:

- their animals
- their land
- their communities

Or

Select a hot-topic in animal science to investigate further! Report your findings in a 1-2 page report.

<http://animalsmart.org/animal-science/hot-topics>

*\*Try to get first hand information from an expert in an interview.*

